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TECH CENTER 1600

RAW SEQUENCE LISTING

PATENT APPLICATION: **US/09/724,868**

DATE: 06/03/2003

TIME: 09:51:40

Input Set : **N:\Crf3\RULE60\09724868.raw.txt**
Output Set: **N:\CRF4\06032003\I724868.raw**

ENTERED

SEQUENCE LISTING

```
 3  (1) GENERAL INFORMATION:
 5       (i) APPLICANT: Lam, Xanthe M.
 6                     Oeswein, James Q.
 7                     Ongpipattanakul, Boonsri
 8                     Shahrokh, Zahra
 9                     Wang, Sharon X.
10                     Weissburg, Robert P.
11                     Wong, Rita L.
13      (ii) TITLE OF INVENTION: Antibody Formulation
15     (iii) NUMBER OF SEQUENCES: 11
17      (iv) CORRESPONDENCE ADDRESS:
18           (A) ADDRESSEE: Genentech, Inc.
19           (B) STREET: 1 DNA Way
20           (C) CITY: South San Francisco
21           (D) STATE: California
22           (E) COUNTRY: USA
23           (F) ZIP: 94080
25       (v) COMPUTER READABLE FORM:
26           (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
27           (B) COMPUTER: IBM PC compatible
28           (C) OPERATING SYSTEM: PC-DOS/MS-DOS
29           (D) SOFTWARE: WinPatin (Genentech)
31      (vi) CURRENT APPLICATION DATA:
```

C--> `32           (A) APPLICATION NUMBER: US/09/724,868`
C--> `33           (B) FILING DATE: 28-Nov-2000`

```
34           (C) CLASSIFICATION: 424
36     (vii) PRIOR APPLICATION DATA:
```

W--> `38           (A) APPLICATION NUMBER: US/09/097,171`

```
39           (B) FILING DATE:
```

W--> `40           (A) APPLICATION NUMBER: 08/874897`

```
41           (B) FILING DATE: 13-JUN-1997
43    (viii) ATTORNEY/AGENT INFORMATION:
44           (A) NAME: Lee, Wendy M.
45           (B) REGISTRATION NUMBER: 40,378
46           (C) REFERENCE/DOCKET NUMBER: P1089R1
48      (ix) TELECOMMUNICATION INFORMATION:
49           (A) TELEPHONE: 650/225-1994
50           (B) TELEFAX: 650/952-9881
51  (2) INFORMATION FOR SEQ ID NO: 1:
53       (i) SEQUENCE CHARACTERISTICS:
54           (A) LENGTH: 241 amino acids
55           (B) TYPE: Amino Acid
```

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/724,868**

DATE: 06/03/2003
TIME: 08:51:40

Input Set : **N:\Crf3\RULE60\09724868.raw.txt**
Output Set: **N:\CRF4\06032003\I724868.raw**

```
56            (D) TOPOLOGY: Linear
58      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
60   Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
61    1               5                  10                 15
63   Gly Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Tyr Thr Phe Thr
64                   20                 25                 30
66   Glu Tyr Thr Met His Trp Met Arg Gln Ala Pro Gly Lys Gly Leu
67                   35                 40                 45
69   Glu Trp Val Ala Gly Ile Asn Pro Lys Asn Gly Gly Thr Ser His
70                   50                 55                 60
72   Asn Gln Arg Phe Met Asp Arg Phe Thr Ile Ser Val Asp Lys Ser
73                   65                 70                 75
75   Thr Ser Thr Ala Tyr Met Gln Met Asn Ser Leu Arg Ala Glu Asp
76                   80                 85                 90
78   Thr Ala Val Tyr Tyr Cys Ala Arg Trp Arg Gly Leu Asn Tyr Gly
79                   95                100                105
81   Phe Asp Val Arg Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu Val
82                  110                115                120
84   Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
85                  125                130                135
87   Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly
88                  140                145                150
90   Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
91                  155                160                165
93   Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val
94                  170                175                180
96   Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
97                  185                190                195
99   Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
100                 200                205                210
102   His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
103                 215                220                225
105   Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
106                 230                235                240
108  Leu
109  241
111 (2) INFORMATION FOR SEQ ID NO: 2:
113      (i) SEQUENCE CHARACTERISTICS:
114          (A) LENGTH: 214 amino acids
115          (B) TYPE: Amino Acid
116          (D) TOPOLOGY: Linear
118      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
120  Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
121   1               5                  10                 15
123  Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Asn
124                  20                 25                 30
126  Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
127                  35                 40                 45
129  Leu Leu Ile Tyr Tyr Thr Ser Thr Leu His Ser Gly Val Pro Ser
```

```
130                    50              55                  60
132   Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile
133                    65              70                  75
135   Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
136                    80              85                  90
138   Gly Asn Thr Leu Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu
139                    95              100                 105
141   Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
142                    110             115                 120
144   Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
145                    125             130                 135
147   Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
148                    140             145                 150
150   Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu
151                    155             160                 165
153   Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr
154                    170             175                 180
156   Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu
157                    185             190                 195
159   Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn
160                    200             205                 210
162   Arg Gly Glu Cys
163                    214
165   (2) INFORMATION FOR SEQ ID NO: 3:
167        (i) SEQUENCE CHARACTERISTICS:
168            (A) LENGTH: 36 amino acids
169            (B) TYPE: Amino Acid
170            (D) TOPOLOGY: Linear
172       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
174   Leu Gly Gly Arg Met Lys Gln Leu Glu Asp Lys Val Glu Glu Leu
175     1             5               10                  15
177   Leu Ser Lys Asn Tyr His Leu Glu Asn Glu Val Ala Arg Leu Lys
178                    20              25                  30
180   Lys Leu Val Gly Glu Arg
181                    35  36
183   (2) INFORMATION FOR SEQ ID NO: 4:
185        (i) SEQUENCE CHARACTERISTICS:
186            (A) LENGTH: 11 amino acids
187            (B) TYPE: Amino Acid
188            (D) TOPOLOGY: Linear
190       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
192   Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro
193     1             5               10  11
195   (2) INFORMATION FOR SEQ ID NO: 5:
197        (i) SEQUENCE CHARACTERISTICS:
198            (A) LENGTH: 7 amino acids
199            (B) TYPE: Amino Acid
200            (D) TOPOLOGY: Linear
202       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
```

RAW SEQUENCE LISTING   DATE: 06/03/2003
PATENT APPLICATION: **US/09/724,868**   TIME: 05:31:40

Input Set : **N:\Crf3\RULE60\09724868.raw.txt**
Output Set: **N:\CRF4\06032003\I724868.raw**

```
204   His Gln Ser Leu Gly Thr Gln
205    1                5        7
207  (2) INFORMATION FOR SEQ ID NO: 6:
209      (i) SEQUENCE CHARACTERISTICS:
210          (A) LENGTH: 8 amino acids
211          (B) TYPE: Amino Acid
212          (D) TOPOLOGY: Linear
214     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
216   His Gln Asn Leu Ser Asp Gly Lys
217    1                5           8
219  (2) INFORMATION FOR SEQ ID NO: 7:
221      (i) SEQUENCE CHARACTERISTICS:
222          (A) LENGTH: 8 amino acids
223          (B) TYPE: Amino Acid
224          (D) TOPOLOGY: Linear
226     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
228   His Gln Asn Ile Ser Asp Gly Lys
229    1                5           8
231  (2) INFORMATION FOR SEQ ID NO: 8:
233      (i) SEQUENCE CHARACTERISTICS:
234          (A) LENGTH: 8 amino acids
235          (B) TYPE: Amino Acid
236          (D) TOPOLOGY: Linear
238     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
240   Val Ile Ser Ser His Leu Gly Gln
241    1                5           8
243  (2) INFORMATION FOR SEQ ID NO: 9:
245      (i) SEQUENCE CHARACTERISTICS:
246          (A) LENGTH: 2143 base pairs
247          (B) TYPE: Nucleic Acid
248          (C) STRANDEDNESS: Single
249          (D) TOPOLOGY: Linear
251     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
254  GAATTCAACT TCTCCATACT TTGGATAAGG AAATACAGAC ATGAAAAATC 50
256  TCATTGCTGA GTTGTTATTT AAGCTTTGGA GATTATCGTC ACTGCAATGC 100
258  TTCGCAATAT GGCGCAAAAT GACCAACAGC GGTTGATTGA TCAGGTAGAG 150
260  GGGGCGCTGT ACGAGGTAAA GCCCGATGCC AGCATTCCTG ACGACGATAC 200
262  GGAGCTGCTG CGCGATTACG TAAAGAAGTT ATTGAAGCAT CCTCGTCAGT 250
264  AAAAAGTTAA TCTTTTCAAC AGCTGTCATA AAGTTGTCAC GGCCGAGACT 300
266  TATAGTCGCT TTGTTTTTAT TTTTTAATGT ATTTGTAACT AGAATTCGAG 350
268  CTCGCCGGGG ATCCTCTAGA GGTTGAGGTG ATTTTATGAA AAAGAATATC 400
270  GCATTCTTC TTGCATCTAT GTTCGTTTTT TCTATTGCTA CAAACGCGTA 450
272  CGCTGATATC CAGATGACCC AGTCCCCGAG CTCCCTGTCC GCCTCTGTGG 500
274  GCGATAGGGT CACCATCACC TGTCGTGCCA GTCAGGACAT CAACAATTAT 550
276  CTGAACTGGT ATCAACAGAA ACCAGGAAAA GCTCCGAAAC TACTGATTTA 600
278  CTATACCTCC ACCCTCCACT CTGGAGTCCC TTCTCGCTTC TCTGGTTCTG 650
280  GTTCTGGGAC GGATTACACT CTGACCATCA GCAGTCTGCA ACCGGAGGAC 700
282  TTCGCAACTT ATTACTGTCA GCAAGGTAAT ACTCTGCCGC CGACGTTCGG 750
284  ACAGGGCACG AAGGTGGAGA TCAAACGAAC TGTGGCTGCA CCATCTGTCT 800
```

```
286   TCATCTTCCC GCCATCTGAT GAGCAGTTGA AATCTGGAAC TGCCTCTGTT 850
288   GTGTGCCTGC TGAATAACTT CTATCCCAGA GAGGCCAAAG TACAGTGGAA 900
290   GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT GTCACAGAGC 950
292   AGGACAGCAA GGACAGCACC TACAGCCTCA GCAGCACCCT GACGCTGAGC 1000
294   AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA 1050
296   GGGCCTGAGC TCGCCCGTCA CAAAGAGCTT CAACAGGGGA GAGTGTTAAG 1100
298   CTGATCCTCT ACGCCGGACG CATCGTGGCG CTAGTACGCA AGTTCACGTA 1150
300   AAAACGGTAT CTAGAGGTTG AGGTGATTTT ATGAAAAAGA ATATCGCATT 1200
302   TCTTCTTGCA TCTATGTTCG TTTTTTCTAT TGCTACAAAC GCGTACGCTG 1250
304   AGGTTCAGCT GGTGGAGTCT GGCGGTGGCC TGGTGCAGCC AGGGGGCTCA 1300
306   CTCCGTTTGT CCTGTGCAAC TTCTGGCTAC ACCTTTACCG AATACACTAT 1350
308   GCACTGGATG CGTCAGGCCC CGGGTAAGGG CCTGGAATGG GTTGCAGGGA 1400
310   TTAATCCTAA AAACGGTGGT ACCAGCCACA ACCAGAGGTT CATGGACCGT 1450
312   TTCACTATAA GCGTAGATAA ATCCACCAGT ACAGCCTACA TGCAAATGAA 1500
314   CAGCCTGCGT GCTGAGGACA CTGCCGTCTA TTATTGTGCT AGATGGCGAG 1550
316   GCCTGAACTA CGGCTTTGAC GTCCGTTATT TTGACGTCTG GGGTCAAGGA 1600
318   ACCCTGGTCA CCGTCTCCTC GGCCTCCACC AAGGGCCCAT CGGTCTTCCC 1650
320   CCTGGCACCC TCCTCCAAGA GCACCTCTGG GGGCACAGCG GCCCTGGGCT 1700
322   GCCTGGTCAA GGACTACTTC CCCGAACCGG TGACGGTGTC GTGGAACTCA 1750
324   GGCGCCCTGA CCAGCGGCGT GCACACCTTC CCGGCTGTCC TACAGTCCTC 1800
326   AGGACTCTAC TCCCTCAGCA GCGTGGTGAC CGTGCCCTCC AGCAGCTTGG 1850
328   GCACCCAGAC CTACATCTGC AACGTGAATC ACAAGCCCAG CAACACCAAG 1900
330   GTCGACAAGA AAGTTGAGCC CAAATCTTGT GACAAAACTC ACACATGCCC 1950
332   GCCGTGCCCA GCACCAGAAC TGCTGGGCGG CCGCATGAAA CAGCTAGAGG 2000
334   ACAAGGTCGA GAGCTACTC TCCAAGAACT ACCACCTAGA GAATGAAGTG 2050
336   GCAAGACTCA AAAAGCTTGT CGGGGAGCGC TAAGCATGCG ACGGCCCTAG 2100
338   AGTCCCTAAC GCTCGGTTGC CGCCGGGCGT TTTTTATTGT TAA 2143
340   (2) INFORMATION FOR SEQ ID NO: 10:
342       (i) SEQUENCE CHARACTERISTICS:
343           (A) LENGTH: 237 amino acids
344           (B) TYPE: Amino Acid
345           (D) TOPOLOGY: Linear
347      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
349   Met Lys Lys Asn Ile Ala Phe Leu Leu Ala Ser Met Phe Val Phe
350   -23         -20             -15                     -10
352   Ser Ile Ala Thr Asn Ala Tyr Ala Asp Ile Gln Met Thr Gln Ser
353               -5                  1               5
355   Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
356               10                  15                  20
358   Cys Arg Ala Ser Gln Asp Ile Asn Asn Tyr Leu Asn Trp Tyr Gln
359               25                  30                  35
361   Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Tyr Thr Ser
362               40                  45                  50
364   Thr Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
365               55                  60                  65
367   Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
368               70                  75                  80
370   Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Thr Leu Pro Pro Thr
371               85                  90                  95
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/724,868**

DATE: 06/03/2003
TIME: 08:31:41

Input Set : **N:\Crf3\RULE60\09724868.raw.txt**
Output Set: **N:\CRF4\06032003\I724868.raw**

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:40 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)